

M SEALS HNBR-FQ-G82

Green FDA compliant HNBR

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



FDA Ingredient Compliant



ADI FREE



NUT FREE

Description

M Seals material HNBR-FQ-G82 is an FDA compliant Hydrogenated Nitrile Butadiene Rubber (H-NBR).

FDA compliance and improved chemical resistance over standard Nitrile compounds make HNBR-FQ-G82 a good material of choice for seals and other elastomeric parts which require chemical and/or fluid compatibility while working in food and beverage applications where other materials may not be compatible.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Green
Density	ISO 1183	g/cm ³	1.44
Hardness	ISO 7619-1	Shore A	82 (+/-5)
Tensile Strength	DIN 53504	MPa	9.5
100% Modulus	DIN 53504	MPa	4.4
Elongation at break	DIN 53504	%	499
Rebound resilience	DIN 53512	%	29
Compression set (24 Hours @ 100°C, 25%)	ISO 815-1	%	31
Compression set (24 Hours @ 150°C, 25%)	ISO 815-1	%	40
Minimum service temperature		°C	-30
Maximum service temperature		°C	+150

Main Characteristics

- Green colour for easy identification
- CFR 177.2600 FDA ingredient compliant
- Good chemical resistance
- Good temperature range
- No tooling required
- ADI free
- Does not contain ingredients derived from Nuts

Typical Products

- Triclover seals
- RJT seals
- DIN 11851 D-Seals
- Static Seals & O-Rings
- Depositor seals
- Butterfly valve seals
- Bespoke Parts

Typical Applications

Due to its excellent temperature and chemical resistance, HNBR-FQ-G82 Hydrogenated Nitrile elastomer can be used in a wide range of food contact applications where resistance to common clean in place (CIP) cleaning fluids is required.

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: sales.esd@m-seals.co.uk . Web: www.m-seals.com

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